

### Abstract

5 The invention relates to a measuring arrangement for testing workpieces, having at least one optical fibre (11, 12, 13, 14, 15, 16, 17, 18) assigned to a workpiece (10), in which or each the optical fibre (11, 12, 13, 14, 15, 16, 17, 18 ) is designed as a Bragg grating sensor, and in which the or each optical fibre (11, 12, 13, 14, 15, 16, 17, 18) is arranged in the region of a surface of the workpiece.

10 (Figure 1)